ANIONIC SURFACTANTS AS MBAS SM 18 th Ed. 5540 C						
Facility Name:		VELAP ID				
Assessor Name:Analyst Name:	Inspection Date					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments	
Records Examined: SOP Number/ Revision/ Date Analyst:				nalyst:		
Sample ID: Date of Sample Prepa	ration:			Date of	Analysis:	
Was reagent grade water MBAS-free?	3.1					
Were samples analyzed using a spectrophotometer or filter photometer at 652nm?	2.a					
Did calibration curves have correlation coefficients of 0.995 or better?	4.a					
Were sample volumes selected based on the expected concentration? 0.025-0.080 mg/L, use 400 mL 0.08-0.40 mg/L, use 250 mL 0.4-2.0 mg/L, use 100 mL >2mg/L, dilute to 100 mL with water	4.b					
Were samples where interferences were expected sublated by extracting with methanol and nitrogen gas and then heating to dryness prior to the re-addition of water?	4.b					
Were a few drops of 30% H ₂ O ₂ added to samples where sulfides decolorized methylene blue?	4.c					
Were samples made alkaline after placing in separatory funnels by the dropwise addition of 1N NaOH with the use of phenolphthalein indicator?	4.d.1					
Did samples then have their pink color discharged by the addition of 1N H ₂ SO ₄ ?	4.d.1					
Were 10 mL of CHCl ₃ and 25 mL of methylene blue reagent then added to samples, and the samples mixed?	4.d.2					
If at any time after the addition of 25 mL of methlyene blue reagent any samples lost their blue color during extraction, were such samples discarded, and extraction repeated with smaller volumes?	4.d.2 4.d.3					
Notes/Comments:						

ANIONIC SURFACTANTS BY MBAS SM 18th Ed. 5540 C

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
If consistent emulsions formed during extractions with CHCl ₃ , were those emulsions broken by addition of <10 mL of isopropyl alcohol, and then was that same volume of isopropyl alcohol added to all standards?	4.d.2				
Were samples extracted three times with CHCl ₃ ?	4.d.3				
Were all three CHCl ₃ extracts from each sample combined into a separatory funnel, shaken for 30 seconds with 50 mL of wash solution, and allowed to settle?	4.d.4				
Were CHCl ₃ layers then drawn off from the separatory funnels through plugs of glass wool, and the wash solutions extracted twice with CHCl ₃ with the CHCl ₃ layers being drawn through the glass wool into the same vessel?	4.d.4				
Were aborbances of extracts determined at 652 nm against a blank of CHCl ₃ ?	4.e				
Were calculations made correctly? mg MBAS/L = (μg apparent LAS) / (mL original sample)	5				

Notes	/Comm	ents:
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